

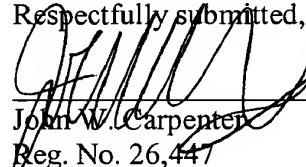
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58. The process of Claim 57 wherein said temperature ranges from about 30°C to less than about 40°C.

59. The process of Claim 51 wherein said substance comprises an oligosaccharide.

REMARKS

The above amendment to the Specification provides information regarding Government support. Claims 51-59 have been added to claim additional embodiments of the invention.

Attached hereto is a marked-up version of the changes made to the Specification and the added claims by this Amendment. The attached page is captioned "Version With Markings To Show Changes Made."

Respectfully submitted,

John W. Carpenter
Reg. No. 26,447

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COUDERT BROTHERS
600 Beach Street, Third Floor
San Francisco, CA 94109-1312
Telephone: (415) 409-2900
Telefax: (415) 409-7400

Version With Markings To Show Changes Made

In the Specification:

The paragraph beginning at line 6 on page 2 has been amended as follows:

Embodiments of this invention were made with Government support under Grant No. HL67810-03 and Grant Nos. HL57810 and HL61204, all awarded by the National Institutes of Health. Nos. HL57810 and HL61204, awarded by the National Institutes of Health; and under Grant No. N66001-00-C-8048, awarded by the Department of the Navy (DARPA). The Government has certain rights to embodiments of this invention.

The following Claims have been added:

51. A process for increasing the loading efficiency of a substance into cells comprising:
 - providing cells having a first phase transition temperature range and a second phase transition temperature range which is greater than the first phase transition temperature range;
 - disposing the cells into a substance solution for loading a substance into the cells; and
 - heating the substance solution to the second phase transition temperature range to increase the loading efficiency of the substance into the cells.
52. The process of Claim 51 additionally comprising uptaking external substance via fluid phase endocytosis from the substance solution.
53. The process of Claim 51 wherein said cells are human eukaryotic cells.
54. The process of Claim 51 wherein said second phase transition temperature range is greater than about 25°C.
55. The process of Claim 51 wherein said cells do not include a fixative.
56. The process of Claim 54 wherein said second phase transition temperature ranges from a temperature greater than about 25°C to a temperature less than about 50°C.

57. The process of Claim 56 wherein said temperature ranges from about 30°C to less than about 50°C.
58. The process of Claim 57 wherein said temperature ranges from about 30°C to less than about 40°C.
59. The process of Claim 51 wherein said substance comprises an oligosaccharide.